IFW16

RAW SEQUENCE LISTING DATE: 08/02/2004
PATENT APPLICATION: **US/09/853,880A** TIME: 10:37:52

Input Set : **N:\Crf4\07302004\I853880A.raw**
Output Set: **N:\CRF4\08022004\I853880A.raw**




```
     1 <110> APPLICANT: Riggins, Greggory
     2       Lal, Anita
     3       Loging, William
     4 <120> TITLE OF INVENTION: FOUR GENETIC TUMOR MARKERS SPECIFIC FOR
     5       HUMAN GLIOBLASTOMA
     6 <130> FILE REFERENCE: 00250.00003
C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/853,880A
     8 <141> CURRENT FILING DATE: 2001-05-14
     9 <160> NUMBER OF SEQ ID NOS: 17
    10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
    12 <210> SEQ ID NO: 1
    13 <211> LENGTH: 17
    14 <212> TYPE: DNA
    15 <213> ORGANISM: Artificial Sequence
    16 <220> FEATURE:
    17 <223> OTHER INFORMATION: PCR primer
    18 <400> SEQUENCE: 1
    19       cgtcttcccc tccatcg                                          17
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    22 <211> LENGTH: 18
    23 <212> TYPE: DNA
    24 <213> ORGANISM: Artificial Sequence
    25 <220> FEATURE:
    26 <223> OTHER INFORMATION: PCR primer
    27 <400> SEQUENCE: 2
    28       ctcgttaatg tcacgcac                                         18
    30 <210> SEQ ID NO: 3
    31 <211> LENGTH: 20
    32 <212> TYPE: DNA
    33 <213> ORGANISM: Artificial Sequence
    34 <220> FEATURE:
    35 <223> OTHER INFORMATION: PCR primer
    36 <400> SEQUENCE: 3
    37       ttactttaat ttagaaatag                                       20
    39 <210> SEQ ID NO: 4
    40 <211> LENGTH: 20
    41 <212> TYPE: DNA
    42 <213> ORGANISM: Artificial Sequence
    43 <220> FEATURE:
    44 <223> OTHER INFORMATION: PCR primer
    45 <400> SEQUENCE: 4
    46       atcaggtaat gcagtttgtt                                       20
    48 <210> SEQ ID NO: 5
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<211> LENGTH: 19
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 5
ctgcctagac ggtgtgaag 19
<210> SEQ ID NO: 6
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 6
agtggctggc tctgagtcac 20
<210> SEQ ID NO: 7
<211> LENGTH: 22
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 7
catcgacctg gagactgaca ac 22
<210> SEQ ID NO: 8
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 8
ccattctgcg gacatatttg 20
<210> SEQ ID NO: 9
<211> LENGTH: 19
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 9
agccagcaag atccgagtg 19
<210> SEQ ID NO: 10
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 10
gcacaatcta agccacgctg 20
<210> SEQ ID NO: 11
<211> LENGTH: 20

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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 11
gcaggcctgg tttattgaaa 20

<210> SEQ ID NO: 12
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 12
ggttgcttca tccacacctt 20

<210> SEQ ID NO: 13
<211> LENGTH: 19
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 13
aggtcacagg tctcgaaaa 19

<210> SEQ ID NO: 14
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 14
agaggtggtg gaagaaactg 20

<210> SEQ ID NO: 15
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 15
aactctaccc agtgtggaag 20

<210> SEQ ID NO: 16
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: PCR primer
<400> SEQUENCE: 16
ttgaggaagt ggctaggatc 20

<210> SEQ ID NO: 17
<211> LENGTH: 560
<212> TYPE: PRT

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<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 17

```
Met Glu Cys Leu Tyr Tyr Phe Leu Gly Phe Leu Leu Leu Ala Ala Arg
 1               5                  10                  15
Leu Pro Leu Asp Ala Ala Lys Arg Phe His Asp Val Leu Gly Asn Glu
            20                  25                  30
Arg Pro Ser Ala Tyr Met Arg Glu His Asn Gln Leu Asn Gly Trp Ser
        35                  40                  45
Ser Asp Glu Asn Asp Trp Asn Glu Lys Leu Tyr Pro Val Trp Lys Arg
    50                  55                  60
Gly Asp Met Arg Trp Lys Asn Ser Trp Lys Gly Gly Arg Val Gln Ala
65                  70                  75                  80
Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
                85                  90                  95
Ala Val Asn Leu Ile Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
            100                 105                 110
Asn Ile Val Tyr Glu Lys Asn Cys Arg Asn Glu Ala Gly Leu Ser Ala
        115                 120                 125
Asp Pro Tyr Val Tyr Asn Trp Thr Ala Trp Ser Glu Asp Ser Asp Gly
    130                 135                 140
Glu Asn Gly Thr Gly Gln Ser His His Asn Val Phe Pro Asp Gly Lys
145                 150                 155                 160
Pro Phe Pro His His Pro Gly Trp Arg Arg Trp Asn Phe Ile Tyr Val
                165                 170                 175
Phe His Thr Leu Gly Gln Tyr Phe Gln Lys Leu Gly Arg Cys Ser Val
            180                 185                 190
Arg Val Ser Val Asn Thr Ala Asn Val Thr Leu Gly Pro Gln Leu Met
        195                 200                 205
Glu Val Thr Val Tyr Arg Arg His Gly Arg Ala Tyr Val Pro Ile Ala
    210                 215                 220
Gln Val Lys Asp Val Tyr Val Val Thr Asp Gln Ile Pro Val Phe Val
225                 230                 235                 240
Thr Met Phe Gln Lys Asn Asp Arg Asn Ser Ser Asp Glu Thr Phe Leu
                245                 250                 255
Lys Asp Leu Pro Ile Met Phe Asp Val Leu Ile His Asp Pro Ser His
            260                 265                 270
Phe Leu Asn Tyr Ser Thr Ile Asn Tyr Lys Trp Ser Phe Gly Asp Asn
        275                 280                 285
Thr Gly Leu Phe Val Ser Thr Asn His Thr Val Asn His Thr Tyr Val
    290                 295                 300
Leu Asn Gly Thr Phe Ser Leu Asn Leu Thr Val Lys Ala Ala Ala Pro
305                 310                 315                 320
Gly Pro Cys Pro Pro Pro Pro Pro Pro Pro Arg Pro Ser Lys Pro Thr
                325                 330                 335
Pro Ser Leu Gly Pro Ala Gly Asp Asn Pro Leu Glu Leu Ser Arg Ile
            340                 345                 350
Pro Asp Glu Asn Cys Gln Ile Asn Arg Tyr Gly His Phe Gln Ala Thr
        355                 360                 365
Ile Thr Ile Val Glu Gly Ile Leu Glu Val Asn Ile Ile Gln Met Thr
```

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```
208          370                 375                 380
209      Asp Val Leu Met Pro Val Pro Trp Pro Glu Ser Ser Leu Ile Asp Phe
210      385                 390                 395                 400
211      Val Val Thr Cys Gln Gly Ser Ile Pro Thr Glu Val Cys Thr Ile Ile
212                      405                 410                 415
213      Ser Asp Pro Thr Cys Glu Ile Thr Gln Asn Thr Val Cys Ser Pro Val
214                  420                 425                 430
215      Asp Val Asp Glu Met Cys Leu Leu Thr Val Arg Arg Thr Phe Asn Gly
216              435                 440                 445
217      Ser Gly Thr Tyr Cys Val Asn Leu Thr Leu Gly Asp Asp Thr Ser Leu
218          450                 455                 460
219      Ala Leu Thr Ser Thr Leu Ile Ser Val Pro Asp Arg Asp Pro Ala Ser
220      465                 470                 475                 480
221      Pro Leu Arg Met Ala Asn Ser Ala Leu Ile Ser Val Gly Cys Leu Ala
222                      485                 490                 495
223      Ile Phe Val Thr Val Ile Ser Leu Leu Val Tyr Lys Lys His Lys Glu
224                  500                 505                 510
225      Tyr Asn Pro Ile Glu Asn Ser Pro Gly Asn Val Val Arg Ser Lys Gly
226              515                 520                 525
227      Leu Ser Val Phe Leu Asn Arg Ala Lys Ala Val Phe Phe Pro Gly Asn
228          530                 535                 540
229      Gln Glu Lys Asp Pro Leu Leu Lys Asn Gln Glu Phe Lys Gly Val Ser
230      545                 550                 555                 560
```

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L:7 M:270 C: Current Application Number differs, Wrong Format